Department of Commerce • National Oceanic & Atmospheric Administration • National Weather Service

***NATIONAL WEATHER SERVICE INSTRUCTION 10-501***
***OCTOBER 1, 2002***

***Operations and Services***
***Public Weather Services, NWSPD 10-5***

# *WFO STATEMENTS, SUMMARIES, TABLES PRODUCTS SPECIFICATION*

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**NOTICE:** This publication is available at: http://www.nws.noaa.gov/directives/

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**OPR:** W/OS22 (A. Thomas) **Certified by:** W/OS22 (J. Lee)
**Type of Issuance:** Initial.

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***SUMMARY OF REVISIONS:*** This directive supersedes the following:

Weather Service Operations Manual (WSOM) Chapter C-21, "Local and Regional Statements, Summaries, and Tables," Issuance 92-10 dated August 31, 1992 (*ref.* State Weather Summary, Regional Weather Summary, State Maximum/Minimum Temperature and Precipitation Table, State Weather Roundup, Record Report, Climatological Report (Daily), Climatological Report (Longer Term), and Public Information Statement);

Operations Manual Letter (OML) 04-95, filed with C-21 (also filed with C-11, C-20 and C-64), "Ultraviolet Index (UVI) Forecasts," dated 6/5/95 (*ref.* Climatological Report (Daily));

OML 04-99, filed with C-21, "Modification for AWIPS Commissioning to Designated WSOM Chapters," dated 9/9/99;

Transmittal Memorandum (TM) 00-07, filed with C-21, "An update to page 13 of WSOM Chapter C-21, Local and Regional Statements, Summaries, and Tables," dated 5/3/00 (*ref.* Public Information Statement);

OML 09-00, filed with C-21, "Climatological Reports (CLI - CSUS2) Standard Formats," dated 7/1/00.

signed 10/01/02

Gregory A. Mandt Date
Director, Office of Climate,
Water, and Weather Services

## WFO Statements, Summaries, Tables Products Specification

Table of Contents: Page

1. **Introduction**. This procedural instruction describes narrative and tabular weather products issued by local Weather Forecast Offices (WFOs).

2. **Public Information Statement (Product Category PNS)**.

2.1 Mission Connection. The public information statement is an alphanumeric message used to distribute information on nonhazardous events; public education; National Weather Service (NWS) service changes, limitations or interruptions; and special guidelines for interpreting NWS data. The PNS is used by a wide variety of customers and partners such as the general public, emergency managers, and the media.

2.2 Issuance Guidelines.

2.2.1 Creation Software. Weather Forecast Offices (WFO) may use the AWIPS text editor or any other text editor to produce this product.

2.2.2 Issuance Criteria. The need for issuance of the PNS is determined by the issuing office.

2.2.3 Issuance Time. The PNS is a non-scheduled product issued when appropriate.

2.2.4 Valid Time. The PNS is valid through the effective date or time period.

2.2.5 Product Expiration Time. The PNS does not have a product expiration time.

2.2.6 Event Expiration Time. The PNS does not have an event expiration time.

2.3 Technical Description.

2.3.1 UGC Type. The PNS does not use UGC coding.

2.3.2 Mass News Disseminator Broadcast Instruction Line. There is no MND Broadcast Instruction Line for this product.

2.3.3 MND Product Type Line. The PNS does not have a mandatory MND product type line; "PUBLIC INFORMATION STATEMENT" or any other appropriate header may be used.

2.3.4 Content. The PNS may contain various weather or weather service related information of public interest, as described in paragraph 2.1.

2.3.5 Format. The PNS is a free-form text product.

| Product Format | Description of Entry |
|---|---|
| NOaaii cccc ddhhmm | (WMO Heading) |
| PNSxxx | (AWIPS ID) |

| | |
|---|---|
| PUBLIC INFORMATION STATEMENT | (MND) |
| -or- | |
| APPROPRIATE HEADER INFORMATION | |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuance time and date) |

[TEXT]

$$

Name/Initials/Fcstr ID (Optional)

Note: The "xxx" in this product is the modernized three-letter WFO identifier.

2.4 Updates, Amendments, and Corrections. Modifications are made to the PNS as needed. The appropriate terms "UPDATED," or "CORRECTED," preceded by three dots (...) will be appended to the product identification line in the mass disseminator header. As an important aid to users, a brief (usually one line) reason for the update or correction should be added.

## 3. State Weather Summary (Product Category SWS).

3.1 Mission Connection. The State Weather Summary (SWS) provides a brief narrative, for a state or portion of a state, of recent past weather (up to 24 hours in the past), present weather, and forecast conditions (up to 24 hours in the future, but may extend up to 72 hours). The emphasis should be on past and current weather. WFOs may include a description of weather events from nearby areas. Regional Headquarters (RHs) should designate which WFO(s) prepare this product.

3.2 Issuance Guidelines.

3.2.1 Creation Software. The SWS may be composed using the AWIPS text editor or any other text editor.

3.2.2 Issuance Criteria. The SWS is a routine product.

3.2.3 Issuance Time. The SWS should be issued at least twice daily based upon customer requirements, generally mid-morning and early to mid-evening.

3.2.4 Valid Time. The SWS does not have a valid time.

3.2.5 Product Expiration Time. The SWS does not have a product expiration time.

3.2.6 Event Expiration Time. The SWS does not have an event expiration time.

3.3 Technical Description.

3.3.1 UGC Type. The SWS does not use UGC coding.

3.3.2 MND Broadcast Instruction Line. The SWS does not contain an MND Broadcast Instruction Line.

3.3.3 MND Product Type Line. The SWS MND is "YOUR_STATE STATE WEATHER SUMMARY", where "YOUR_STATE" is replaced appropriately.

3.3.4 Content. The SWS may contain the entire range of meteorological variables, e.g., sky condition, weather, wind, temperature, snow depth, tides, water temperature, etc. Record and/or near-record temperatures, precipitation, heat, etc., should be mentioned. The synoptic features causing the weather may be mentioned but only in the very simplest, nontechnical terms.

3.3.5 Format. The SWS is a free-form text product.

| Product Format | Description of Entry |
|---|---|
| AWaaii cccc ddhhmm | (WMO Heading) |
| SWSxxx | (AWIPS ID) |
| YOUR_STATE STATE WEATHER SUMMARY | (MND) |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |
| [TEXT] | |
| $$ | |
| Name/Initials/Fcstr ID | (Optional) |

Note: The "xxx" in this product is the two-letter state identifier followed by a "space".

3.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

## 4. **Regional Weather Summary (Product Category RWS).**

4.1 Mission Connection. The Regional Weather Summary (RWS) provides a brief narrative for a multi-state region of recent past weather (up to 24 hours in the past), present weather, and forecast conditions (up to 24 hours in the future, but may extend up to 72 hours). The emphasis should be on past and current weather. Regional Headquarters may designate which WFOs prepare this product.

4.2 Issuance Guidelines.

4.2.1 Creation Software. The RWS may be composed using the AWIPS text editor or any other text editor.

4.2.2 Issuance Criteria. The RWS is a routine product.

4.2.3 Issuance Time. The RWS should be issued at least twice daily based upon customer requirements, generally mid-morning and early to mid-evening.

4.2.4 Valid Time. The RWS has no valid time.

4.2.5 Product Expiration Time. The RWS does not have a product expiration time.

4.2.6 Event Expiration Time. The RWS does not have an event expiration time.

4.3 Technical Description.

4.3.1 UGC Type. Public Forecast Zones. Each state's RWS may have several summaries grouped geographically. Each summary should include a UGC header assigned for the public forecast zones within that grouping. The partitioning should be determined by the WFO, with the concurrence of the Regional Headquarters.

4.3.2 MND Broadcast Instruction Line. The RWS does not contain an MND Broadcast Instruction Line.

4.3.3 MND Product Type Line. The RWS MND is "REGIONAL WEATHER SUMMARY FOR YOUR_STATE, OTHER_STATE, ANOTHER_STATE, AND GEOGRAPHIC_AREA", where "YOUR_STATE", "OTHER_STATE:, ANOTHER_STATE", and "GEOGRAGRAPHIC_AREA" are replaced appropriately.

4.3.4 Content. The RWS may contain the entire range of meteorological variables, e.g., sky condition, weather, wind, temperature, snow depth, tides, water temperature, etc. Record and/or near-record temperatures, precipitation, heat, etc., should be mentioned. The synoptic features causing the weather may be mentioned but only in the very simplest, nontechnical terms.

4.3.5 Format. The RWS is a free-form text product.

| Product Format | Description of Entry |
|---|---|
| AWaaii cccc ddhhmm | (WMO Heading) |
| RWSxxx | (AWIPS ID) |
| stZ001-005>015-ddhhmm- | (UGC:**Z** & Product expiration time) |
| REGIONAL WEATHER SUMMARY<br>FOR YOUR_STATE, OTHER_STATE, ANOTHER_STATE,<br>AND GEOGRAPHIC_AREA | (MND) |

| | |
|---|---|
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |

[TEXT}

| | |
|---|---|
| $$ | (UGC Delimiter) |
| Name/Initials/Fcstr ID | (Optional) |

Note: The "xxx" in this product is the modernized three-letter WFO identifier.

4.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

## 5. **State Weather Roundup (Product Category SWR)**.

5.1 Mission Connection. The State Weather Roundup (SWR) provides routine, standardized hourly observations within an entire state or portion of a state. Regional Headquarters should designate which WFO(s) prepare this product.

5.2 Issuance Guidelines.

5.2.1 Creation Software. The SWR is automatically composed and transmitted by use of a standard applications program which decodes surface aviation observations.

5.2.2 Issuance Criteria. The SWR is a routine product.

5.2.3 Issuance Time. The SWR should be issued at least hourly. Since some observations are available a few minutes before the hour, while others are not available until shortly after the hour, WFOs may run the application just before the hour for fast dissemination of early observations and again shortly after the hour when the rest of the observations are available.

5.2.4 Valid Time. The SWR does not have a valid time.

5.2.5 Product Expiration Time. The SWR does not have a product expiration time.

5.2.6 Event Expiration Time. The SWR does not have an event expiration time.

5.3 Technical Description.

5.3.1 UGC Type. Public Forecast Zones. Each state's SWR may have several groups of observations according to a geographical partitioning of the state. Each group of observations should include a UGC header assigned for the public forecast zones within that part of the state.

The partitioning should be determined by the WFO, with the concurrence of the Regional Headquarters.

5.3.2 MND Broadcast Instruction Line. The SWR does not contain an MND Broadcast Instruction Line.

5.3.3 MND Product Line Type. The SWR MND is "YOUR_STATE STATE WEATHER ROUNDUP", where "YOUR_STATE" is replaced appropriately.

5.3.4 Content. The SWR may contain the entire range of meteorological variables, e.g., sky condition, weather, temperature, dew point, relative humidity, wind, temperature, atmospheric pressure, etc. In remarks, Wind Chill Index will be abbreviated "WCI" and Heat Index will be abbreviated "HX". Below zero values for temperature, dew point, and WCI will be preceded by a minus (-) sign. If the satellite cloud cover product is unavailable, reports from unaugmented ASOS stations will show "FAIR" for the sky/weather condition when there are few or no clouds (i.e., scattered or less) below 12,000 feet with no significant weather and/or obstructions to visibility. A note explaining the meaning of "FAIR" will appear after the MND header of all SWRs.

5.3.5 Format. The SWR is a tabular product.

| Product Format | Description of Entry |
|---|---|
| ASaaii cccc ddhhmm | (WMO Heading) |
| SWRxxx | (AWIPS ID) |
| YOUR_STATE STATE WEATHER ROUNDUP | (MND) |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |
| stZ001-005>015-ddhhmm- | (UGC:**Z** & Product expiration time) |
| [TEXT] | |
| $$ | (UGC Delimeter) |
| Name/Initials/Fcstr ID | (Optional) |

Note: The "xxx" in this product is the two-letter state identifier followed by a "space".

5.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

6. **Regional Weather Roundup (Product Category RWR)**.

6.1 Mission Connection. The Regional Weather Roundup (RWR) provides routine, standardized hourly observations for a multi-state region. Regional Headquarters may designate which WFOs prepare this product.

6.2 Issuance Guidelines.

6.2.1 Creation Software. The RWR is automatically composed and transmitted by use of a standard applications program that decodes the surface aviation observations.

6.2.2 Issuance Criteria. The RWR is a routine product.

6.2.3 Issuance Time. The RWR should be issued at least hourly. Since some observations are available a few minutes before the hour, while others are not available until shortly after the hour, WFOs may run the application just before the hour for fast dissemination of early observations and again shortly after the hour when the rest of the observations are available.

6.2.4 Valid Time. The RWR does not have a valid time.

6.2.5 Product Expiration Time. The RWR does not have a product expiration time.

6.2.6 Event Expiration Time. The RWR does not have an event expiration time.

6.3 Technical Description.

6.3.1 UGC Type. Public Forecast Zones. Each state's RWR may have several groups of observations. Each group of observations should include a UGC header assigned for the public forecast zones within that grouping. The partitioning should be determined by the WFO, with the concurrence of the Regional Headquarters.

6.3.2 MND Broadcast Instruction Line. The RWR does not contain an MND Broadcast Instruction Line.

6.3.3 MND Product Type Line. The RWR MND is "REGIONAL WEATHER ROUNDUP FOR YOUR_STATE, OTHER_STATE, ANOTHER_STATE, AND GEOGRAPHIC_AREA", where "YOUR_STATE", "OTHER_STATE:, ANOTHER_STATE", and "GEOGRAPHIC_AREA" are replaced appropriately.

6.3.4 Content. The RWR may contain the entire range of meteorological variables, e.g., sky condition, weather, temperature, dew point, relative humidity, wind, temperature, atmospheric pressure, etc. In remarks, Wind Chill Index will be abbreviated "WCI" and Heat Index will be abbreviated "HX". Below zero values for temperature, dew point, and WCI will be preceded by a minus (-) sign. If the satellite cloud cover product is unavailable, reports from unaugmented ASOS stations will show "FAIR" for the sky/weather condition when there are few or no clouds (i.e., scattered or less) below 12,000 feet with no significant weather and/or obstructions to

visibility. A note explaining the meaning of "FAIR" should appear after the MND header of all RWRs.

6.3.5 Format. The RWR is a tabular product.

| Product Format | Description of Entry |
|---|---|
| ASaaii cccc ddhhmm | (WMO Heading) |
| RWRxxx | (AWIPS ID) |
| REGIONAL WEATHER ROUNDUP FOR YOUR_STATE, OTHER_STATE, ANOTHER_STATE, AND GEOGRAPHIC_AREA | (MND) |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |
| stZ001-005>015-ddhhmm- | (UGC:**Z** & Product expiration time) |
| [TEXT] | |
| $$ | (UGC Delimeter) |
| Name/Initials/Fcstr ID | (Optional) |

Note: The "xxx" in this product is the modernized three-letter WFO identifier.

.6.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

## 7. State Maximum/Minimum Temperature and Precipitation Table (Product Category STP).

7.1 Mission Connection. The State Maximum/Minimum Temperature and Precipitation Table (STP) provides the maximum and minimum temperatures and 24-hour precipitation totals from available reporting stations within an entire state or portion of a state. Weather elements such as current weather and snow depth may be included, but any additional information should be kept to a minimum. Regional Headquarters should designate which WFOs prepare this product.

7.2 Issuance Guidelines.

7.2.1 Creation Software. The STP may be composed using the AWIPS text editor or any other text editor.

7.2.2 Issuance Criteria. The STP is a routine product.

7.2.3 Issuance Time. The STP should be issued at least twice daily; in the morning around 1230 hours UTC and in the afternoon/evening around 0030 hours UTC. Additional reports may be issued as data becomes available.

7.2.4 Valid Time. The STP does not have a valid time.

7.2.5 Product Expiration Time. The STP does not have a product expiration time.

7.2.6 Event Expiration Time. The STP does not have an event expiration time.

7.3 Technical Description.

7.3.1 UGC Type. The STP does not use UGC coding.

7.3.2 MND Broadcast Instruction Line. The STP does not contain an MND Broadcast Instruction Line.

7.3.3 MND Product Type Line. The STP MND is "YOUR_STATE Max/Min Temperature and Precipitation Table", where "YOUR_STATE"is replaced appropriately.

7.3.4 Content. Maximum and minimum temperatures (in degrees Fahrenheit) and 24-hour precipitation totals. Weather elements such as current weather and snow depth may be included, but any additional information should be kept to a minimum. WFOs may list the highest and lowest temperatures for their state or area at the bottom of the report.

7.3.5 Format. The STP is a tabular product.

| Product Format | Description of Entry |
|---|---|
| ASaaii cccc ddhhmm | (WMO Heading) |
| STPxxx | (AWIPS ID) |
| YOUR_STATE Max/Min Temperature and Precipitation Table | (MND) |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |
| [TEXT] | |
| $$ | |
| Name/Initials/Fcstr ID | (Optional) |

Note: The "xxx" in this product is the two-letter state identifier followed by a "space".

7.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

## 8. **Regional Maximum/Minimum Temperature and Precipitation Table (Product Category RTP)**.

8.1 Mission Connection. The Regional Maximum/Minimum Temperature and Precipitation Table (RTP) provides the maximum and minimum temperatures and 24-hour precipitation totals from available reporting stations for a multi-state region. Weather elements such as current weather and snow depth may be included, but any additional information should be kept to a minimum. Regional Headquarters may designate which WFOs prepare this product

8.2 Issuance Guidelines.

8.2.1 Creation Software. The RTP may be composed using the AWIPS text editor or any other text editor.

8.2.2 Issuance Criteria. The RTP is a routine product.

8.2.3 Issuance Time. The RTP should be issued at least twice daily; in the morning around 1230 hours UTC and in the afternoon/evening around 0030 hours UTC.. Additional reports may be issued as data becomes available.

8.2.4 Valid Time. The RTP does not have a valid time.

8.2.5 Product Expiration Time. The RTP does not have a product expiration time.

8.2.6 Event Expiration Time. The RTP does not have an event expiration time.

8.3 Technical Description.

8.3.1 UGC Type. The RTP does not use UGC coding.

8.3.2 MND Broadcast Instruction Line. The RTP does not contain an MND Broadcast Instruction Line.

8.3.3 MND Product Type Line. The RTP MND is “YOUR_REGION Max/Min Temperature and Precipitation Table”, where “YOUR_REGION”is replaced appropriately.

8.3.4 Content. Maximum and minimum temperatures (in degrees Fahrenheit) and 24-hour precipitation totals. Weather elements such as current weather and snow depth may be included, but any additional information should be kept to a minimum. WFOs may list the highest and lowest temperatures for their region or area at the bottom of the report.

8.3.5 Format. The RTP is a tabular product.

| Product Format | Description of Entry |
|---|---|
| ABaaii cccc ddhhmm | (WMO Heading) |

| | |
|---|---|
| RTPxxx | (AWIPS ID) |
| YOUR_REGION Max/Min Temperature and Precipitation Table | (MND) |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |

[TEXT]

$$

Name/Initials/Fcstr ID (Optional)

Note: The "xxx" in this product is the modernized three-letter WFO identifier.

8.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

9. **Record Event Report (Product Category RER)**.

9.1 Mission Connection. The Record Event Report (RER) contains meteorological and hydrological events that equal or exceed routine existing records.

9.2 Issuance Guidelines.

9.2.1 Creation Software. The RER is automatically composed whenever the CLIMATE program is run and an existing record value (which CLIMATE monitors) is met or exceeded. Alternatively, The RTP may be composed using the AWIPS text editor or any other text editor.

9.2.2 Issuance Criteria. The RER is an event driven product.

9.2.3 Issuance Time. The RER will be issued on an as needed basis whenever an existing record value is met or exceeded.

9.2.4 Valid Time. The RER does not have a valid time.

9.2.5 Product Expiration Time. The RER does not have a product expiration time.

9.2.6 Event Expiration Time. The RER does not have an event expiration time.

9.3 Technical Description.

9.3.1 UGC Type. RERs do not use UGC coding.

9.3.2 MND Broadcast Instruction Line. The RER does not contain an MND Broadcast Instruction Line.

9.3.3 MND Product Type Line. The RER MND is "RECORD EVENT REPORT."

9.3.4 Content. The RER will be used to report record occurrences of the following meteorological or hydrological events, as data availability allows. Events identified with an "*" should be automatically identified by the AWIPS RER program.

| Record Variable | For: |
|---|---|
| Temperature | |
| maximum | day*, month, season, all time |
| minimum | day*, month, season, all time |
| highest so early | spring |
| highest so late | fall |
| lowest so late | spring |
| lowest so early | fall |
| lowest maximum | day, month, season, all time |
| highest minimum | day, month, season, all time |
| Sea level pressure | |
| highest | all time |
| lowest | all time |
| Wind | |
| highest speed | all time |
| highest gust | all time |
| Largest hail size | all time |
| Most precipitation/snowfall | |
| within calendar day | day*, month, season, all time |
| within 24-hour period | month, season, all time |
| "storm" total | month, season, all time |
| Greatest snow depth | month, season, all time |
| Highest/lowest river stages | all time |

9.3.5 Format. The RER is a text product.

| Product Format | Description of Entry |
|---|---|
| SXaaii cccc ddhhmm | (WMO Heading) |
| RERxxx | (AWIPS ID) |

| | |
|---|---|
| RECORD EVENT REPORT | (MND) |
| NATIONAL WEATHER SERVICE city st | (Issuing Office) |
| time am/pm time_zone day mon dd yyyy | (Issuing time and date) |

[TEXT]

$$

Name/Initials/Fcstr ID (Optional)

Note: The "xxx" in this product is the modernized three-letter WFO identifier.

9.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

10. **Climatological Report (Daily) (Product Category CLI).**

10.1 Mission Connection. The Climatological Report (Daily) (CLI) provides miscellaneous climatological data on a daily basis.

10.2 Issuance Guidelines.

10.2.1 Creation Software. The CLI should be composed by the AWIPS CLIMATE program, or any text editor if the CLIMATE program is not available.

10.2.2 Issuance Criteria. The CLI is a routine product for Local Climate Data (LCD) sites. However, it may be issued non-routinely to meet customer needs.

10.2.3 Issuance Time. The CLI will be issued at least twice daily. The first mandatory issuance will be between 12:30 AM and 5:00 AM local time to capture the previous calendar day's (midnight-to-midnight Local Standard Time) data. The second mandatory issuance will be between 4:30 PM and 5:30 PM local time (before major local newscast times) to capture data for the current day. Other issuances may be made to meet local customer requirements (e.g., a late morning report to capture the current day morning low temperature, an early evening report to capture the final high temperature for the day, etc.)

10.2.4 Valid Time. The CLI is valid from the time of release until the next issuance.

10.2.5 Product Expiration Time. The CLI does not have a product expiration time.

10.2.6 Event Expiration Time. The CLI does not have an event expiration time.

10.3 Technical Description.

10.3.1 UGC Type. The CLI does not use UGC coding.

10.3.2 MND Broadcast Instruction Line. The CLI does not contain an MND Broadcast Instruction Line.

10.3.3 MND Product Type Line. The CLI MND is "CLIMATE REPORT."

10.3.4 Content. The CLI contains the standardized data shown below. WFOs may append specialized data to the end of the standard fixed-fields to meet the needs of local customers.

10.3.5 Format. The CLI is a tabular product. However, supplemental narrative information may be included to meet local customer needs.

| Product Format | Description of Entry |
|---|---|
| **CDaaii cccc ddhhmm** | (WMO Heading) |
| **CLIxxx** | (AWIPS ID) |

```
CLIMATE REPORT
NATIONAL WEATHER SERVICE <WFO> <STATE>
<HMM> AM <LT> <DAY MMM DD YYYY>
.....................................

...THE <CITY1 NAME> CLIMATE SUMMARY FOR <MONTH DD YEAR>...

CLIMATE NORMAL PERIOD YYYY TO YYYY
CLIMATE RECORD PERIOD YYYY TO YYYY

WEATHER ITEM   OBSERVED  TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE    (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.............................................................

TEMPERATURE (F)
 YESTERDAY
  MAXIMUM        000    0000 PM 000    YYYY 000    000       000
  MINIMUM        000    0000 AM 000    YYYY 000    000       000
  AVERAGE        000                       000    000       000

PRECIPITATION (IN)
 YESTERDAY        00.00          00.00 YYYY  00.00  00.00     00.00
 MONTH TO DATE    00.00                      00.00  00.00     00.00
 SINCE <SEASON>   00.00                      00.00  00.00     00.00
 SINCE JAN  1    000.00                      00.00  00.00     00.00

SNOWFALL (IN)
 YESTERDAY        00.0           00.0  YYYY  00.0   00.0      00.0
 MONTH TO DATE   000.0                      00.0  000.0     000.0
 SINCE <SEASON>  000.0                     000.0 0000.0    0000.0
 SINCE JUL  1   0000.0                     000.0 0000.0    0000.0
 SNOW DEPTH      000

DEGREE DAYS
 HEATING
  YESTERDAY      000                         00    000       000
  MONTH TO DATE 0000                       0000   0000      0000
  SINCE <SEASON>0000                       0000  00000      0000
```

```
  SINCE JUL  1 00000                      00000  00000     00000

 COOLING
  YESTERDAY       00                        00    000        00
  MONTH TO DATE 0000                       000   0000      0000
  SINCE <SEASON>0000                      0000   0000      0000
  SINCE JAN  1  0000                      0000   0000      0000

.................................................................

WIND (MPH)
 HIGHEST WIND SPEED    000    HIGHEST WIND DIRECTION <DIR> (000)
 HIGHEST GUST SPEED    000    HIGHEST GUST DIRECTION <DIR> (000)
 AVERAGE WIND SPEED     00.0

SKY COVER
 POSSIBLE SUNSHINE 000 PERCENT
 AVERAGE SKY COVER 0.0

WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
 <W1>
 <W2>
 <W3>
 <ETC.>

RELATIVE HUMIDITY (PERCENT)
 HIGHEST 000   0000 PM
 LOWEST  000   0000 AM
 AVERAGE 000
.................................................................

THE <CITY1 NAME> CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)  000       000      YYYY
 MINIMUM TEMPERATURE (F)  000       000      YYYY

SUNRISE AND SUNSET
<MONTH DD YEAR>........SUNRISE  0000 AM <LT>  SUNSET  0000 PM <LT>(today)
<MONTH DD YEAR>........SUNRISE  0000 AM <LT>  SUNSET  0000 PM <LT>(tomorrow)

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.

&&    (Standard Format end indicator entered locally)
-----------------------------------------------------------------
(<any additional local specialized climate data>

$$
```

Note 1: The “xxx” in this product is the three-letter WFO/LCD site identifier.
Note 2: <Season-to-date> may be locally set to alternate season/year-to-date.

Default <seasons> are defined as:

Winter - December, January, February
Spring - March, April, May
Summer - June, July, August
Fall - September, October, November

Note 3: WFOs may report only OBSERVED VALUEs for SNOWFALL. However, if a WFO elects to report ANY other snowfall field (i.e., RECORD VALUE, YEAR, NORMAL VALUE, DEPARTURE FROM NORMAL, or LAST YEAR), then all SNOWFALL fields will be reported.

10.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

## 11. **Climatological Report (Longer Term) (Product Category CLM).**

11.1 Mission Connection. The Climatological Report (Longer Term) (CLM) provides miscellaneous climatological data for a weekly, monthly, seasonal, or yearly basis.

11.2 Issuance Guidelines.

11.2.1 Creation Software. The CLM should be composed by the AWIPS CLIMATE program, or any text editor if the CLIMATE program is not available.

11.2.2 Issuance Criteria. The CLM is a routine product for Local Climate Data (LCD) sites. However, it may be issued non-routinely to meed customer needs.

11.2.3 Issuance Time. The CLM will be issued at least monthly (in the first few days of the month). A monthly product can be generated using the AWIPS CLIMATE program anytime AFTER 2:30 AM the first day of the following month.

11.2.4 Valid Time. CLMs are valid from the time of release until the next issuance.

11.2.5 Product Expiration Time. The CLM does not have a product expiration time.

11.2.6 Event Expiration Time. The CLM does not have an event expiration time.

11.3 Technical Description.

11.3.1 UGC Type. The CLM does not use UGC coding.

11.3.2 MND Broadcast Instruction Line. The CLM does not contain an MND Broadcast Instruction Line.

11.3.3 MND Product Type Line. The CLM MND is “CLIMATE REPORT.”

11.3.4 Content. The CLM contains the standardized data shown below. WFOs may append specialized data to the end of the standard fixed-fields to meet the needs of local customers. WFOs may also post the F-6 climate report generated by the AWIPS CLIMATE on their web page for local use.

11.3.5 Format. The CLM is a tabular product. However, supplemental narrative information may be included to meet local customer needs.

| Product Format | Description of Entry |
|---|---|
| **CXaaii cccc ddhhmm** | (WMO Heading) |
| **CLMxxx** | (AWIPS ID) |

**CLIMATE REPORT**
**NATIONAL WEATHER SERVICE <WFO> <ST>**
**<HMM> AM <LT> <DAY MMM DD YYYY>**

**.....**

**...THE <CITY_NAME> CLIMATE SUMMARY FOR THE MONTH OF <MONTH> <YEAR>...**

**CLIMATE NORMAL PERIOD YYYY TO YYYY**
**CLIMATE RECORD PERIOD YYYY TO YYYY**

| WEATHER | OBSERVED VALUE | DATE(S) | NORMAL VALUE | DEPART FROM NORMAL | LAST YEAR'S VALUE | DATE(S) |
|---|---|---|---|---|---|---|
| **TEMPERATURE (F)** | | | | | | |
| **RECORD** | | | | | | |
| **HIGH** | **00** | **MM/DD/YYYY** | | | | |
| **LOW** | **00** | **MM/DD/YYYY** | | | | |
| **HIGHEST** | **00** | **MM/DD** | **00** | **00** | **MM** | **MM** |
| **LOWEST** | **00** | **MM/DD** | **00** | **00** | **MM** | **MM** |
| **AVG. MAXIMUM** | **00.0** | | **00.0** | **0.0** | **MM** | |
| **AVG. MINIMUM** | **00.0** | | **00.0** | **0.0** | **MM** | |
| **MEAN** | **00.0** | | **00.0** | **0.0** | **MM** | |
| **DAYS MAX >= 90** | **00** | | **0.0** | **0.0** | **MM** | |
| **DAYS MAX <= 32** | **00** | | **0.0** | **0.0** | **MM** | |
| **DAYS MAX >= 80** | **00** | | | | **MM** | |
| **DAYS MAX >= 60** | **00** | | | | **MM** | |
| **DAYS MAX <= 60** | **00** | | | | **MM** | |
| **DAYS MIN <= 32** | **00** | | **0.0** | **0.0** | **MM** | |
| **DAYS MIN <= 0** | **00** | | **0.0** | **0.0** | **MM** | |
| **DAYS MIN >= 60** | **00** | | | | **MM** | |
| **DAYS MIN <= 40** | **00** | | | | **MM** | |
| **DAYS MIN <= 30** | **00** | | | | **MM** | |
| **PRECIPITATION (INCHES)** | | | | | | |
| **RECORD** | | | | | | |
| **MAXIMUM** | **0.00** | **YYYY** | | | | |
| **MINIMUM** | **0.00** | **YYYY** | | | | |
| **TOTALS** | **0.00** | | **0.00** | **0.00** | **MM** | |
| **DAILY AVG.** | **0.00** | | **0.00** | **0.00** | **MM** | |
| **DAYS >= .01** | **00** | | **0.0** | **0.0** | **MM** | |
| **DAYS >= .10** | **00** | | **0.0** | **0.0** | **MM** | |
| **DAYS >= .50** | **00** | | **0.0** | **0.0** | **MM** | |

```
DAYS >= 1.00      00                0.0         0.0         MM
DAYS >= 0.25      00                                        MM
DAYS >= 0.75      00                                        MM
GREATEST
 24 HR. TOTAL     0.00  MM/DD TO MM/DD                       MM
 STORM TOTAL      0.00                                      MM
 (MM/DD(HH))            MM/DD(HH) TO MM/DD(HH)              MM

SNOWFALL (INCHES)
RECORDS
 TOTAL            0.0   YYYY
 24 HR TOTAL      0.0   MM/DD/YYYY TO MM/DD/YYYY
 SNOW DEPTH       MM    MM
TOTALS            0.0               0.0         0.0         MM
 LIQUID EQUIV     0.0               0.0         0.0         MM
SINCE 7/1         0.0               0.0         0.0         MM
 LIQUID 7/1       0.0               MM          MM          MM
SNOWDEPTH AVG.    0                 0           0           MM
DAYS >= TRACE     0                 0.0         0.0         MM
DAYS >= 1.0       0                 0.0         0.0         MM
DAYS >= 3.0       0                                         MM
GREATEST
 SNOW DEPTH       0     MM                                  MM    MM
 24 HR TOTAL      0.0   MM/DD TO MM/DD                      MM
 STORM TOTAL      MM                                        MM
 (MM/DD(HH))      MM                                        MM

DEGREE_DAYS
HEATING TOTAL     000               000         00          MM
 SINCE 7/1        0000              MM          MM          MM
COOLING TOTAL     00                00          00          MM
 SINCE 1/1        00                MM          MM          MM

FREEZE DATES
RECORD
 EARLIEST   MM/DD/YYYY
 LATEST     MM/DD/YYYY
EARLIEST                    MM/YY
LATEST                      MM/YY
.............................................................

WIND (MPH)
AVERAGE WIND SPEED                  0.0
RESULTANT WIND SPEED/DIRECTION      0/000
HIGHEST WIND SPEED/DIRECTION        00/000      DATE  MM/DD
HIGHEST GUST SPEED/DIRECTION        00/000      DATE  MM/DD

SKY COVER
POSSIBLE SUNSHINE (PERCENT)   00
AVERAGE SKY COVER             0.00
NUMBER OF DAYS FAIR           0
NUMBER OF DAYS PC             00
NUMBER OF DAYS CLOUDY         00

AVERAGE RH (PERCENT)          00

WEATHER CONDITIONS. NUMBER OF DAYS WITH
THUNDERSTORM            00    MIXED PRECIP            00
```

```
HEAVY RAIN              00    RAIN                    00
LIGHT RAIN              00    FREEZING RAIN           00
LT FREEZING RAIN        00    HAIL                    00
HEAVY SNOW              00    SNOW                    00
LIGHT SNOW              00    SLEET                   00
FOG                     00    FOG W/VIS <= 1/4 MILE   00
HAZE                    00

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.

$$
```

Note: The “xxx” in this product is the three-letter WFO/LCD site identifier.

11.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

# APPENDIX A - WFO Statements, Summaries, Tables Product Examples

Table of Contents:

1. Introduction. This section contains examples of WFO Statements, Summaries, and Tables.

2. Public Information Statement.

A.

```
NOUS44 KBMX 292155
PNSBMX

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE BIRMINGHAM AL
500 PM CDT SAT JUN 29 2002

...LIGHTNING SAFETY RULES...

IF YOU ARE OUTSIDE...GET INTO AN ENCLOSED BUILDING - LARGE...SUBSTANTIALLY
CONSTRUCTED BUILDINGS TEND TO BE MUCH SAFER THAN SMALLER OR OPEN STRUCTURE...
OR IN AN ALL-METAL(NOT CONVERTIBLE) VEHICLE.

IN GENERAL...FULLY ENCLOSED...ALL METAL VEHICLES WITH THE WINDOWS ROLLED UP
PROVIDE GOOD SHELTER FROM LIGHTNING. AVOID CONTACT WITH METAL.

INSIDE A HOME...AVOID USING THE TELEPHONE EXCEPT FOR EMERGENCIES.  ALSO...STAY
AWAY FROM WINDOWS.

AVOID BEING IN OR NEAR HIGH PLACES AND OPEN FIELDS...ISOLATED TREES...
UNPROTECTED GAZEBOS...RAIN OR PICNIC SHELTERS...BASEBALL DUGOUTS...
TOWERS...FLAGPOLES...LIGHT POLES...BLEACHERS OF ANY TYPE...METAL
FENCES...CONVERTIBLE VEHICLES...GOLF CARTS...MOTORCYCLES...SCOOTERS...RIDING
LAWN MOWERS...OR WATER /OCEAN...LAKE...SWIMMING POOLS...RIVERS...PONDS
...ETC./.

MOVE AWAY FROM OPEN WATER OR FROM OPEN TRACTORS OR OTHER FARM EQUIPMENT.

STAY AWAY FROM WIRE FENCES...CLOTHESLINES...METAL PIPES...RAILS OR OTHER
METALLIC PATHS WHICH COULD CARRY LIGHTNING FROM SOME DISTANCE AWAY.

IN A FOREST SEEK SHELTER IN A LOW AREA UNDER A THICK GROWTH OF SMALL TREES.
IN OPEN AREAS...GO TO A LOW PLACE SUCH AS A RAVINE OR VALLEY.  BE ALERT FOR
FLASH FLOODS.

IF YOU FEEL YOUR HAIR STAND ON END...LIGHTNING MAY BE ABOUT TO STRIKE.  STAY
ON THE BALLS OF YOUR FEET BUT CROUCH DOWN AND MAKE AS LOW A TARGET OF YOURSELF
AS POSSIBLE.  DO NOT LIE FLAT ON THE GROUND.

REMEMBER...THERE IS NO TRUTH TO THE OLD MYTH THAT "LIGHTNING NEVER STRIKES THE
SAME PLACE TWICE."

PRACTICE THE "30/30" RULE.  THE "30/30" RULE FOR LIGHTNING SAFETY COULD SAVE
YOUR LIFE.

THE FIRST '30' MEANS THAT YOU NEED TO TAKE COVER IF YOU HEAR THUNDER WITHIN 30
SECONDS OF THE LIGHTNING FLASH.  THEN WAIT AT LEAST 30 MINUTES AFTER THE LAST
FLASH OR THUNDER IN ORDER TO RESUME NORMAL ACTIVITY - THE "ALL CLEAR" SIGNAL.

LIGHTNING RESEARCH HAS CONFIRMED THAT CONSECUTIVE LIGHTNING STRIKES CAN OCCUR
AS MUCH AS SIX MILES APART. PEOPLE OFTEN DO NOT PERCEIVE LIGHTNING TO BE CLOSE
IF IT IS TWO MILES OR MORE AWAY...BUT THE RISK OF THE NEXT STRIKE BEING AT
```

YOUR LOCATION MAY ACTUALLY BE VERY HIGH. MANY LIGHTNING CASUALTIES OCCUR IN THE BEGINNING AS A THUNDERSTORM APROACHED...BECAUSE PEOPLE IGNORE THESE PRECURSORS. WHEN THUNDESTORMS ARE IN THE AREA BUT NOT OVERHEAD...THE LIGHTNING THREAT CAN EXIST EVEN IF IT IS SUNNY AT YOUR LOCATION.

$$

B.

NOUS44 KLZK 052203
PNSLZK

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE LITTLE ROCK AR
500 PM CDT FRI JUL 5 2002

...WARMEST DAY IN LITTLE ROCK SO FAR THIS YEAR...

THE OFFICIAL HIGH TEMPERATURE FOR THE LITTLE ROCK AREA TODAY WAS 98 DEGREES. THIS IS THE WARMEST HIGH TEMPERATURE RECORDED SO FAR THIS YEAR. IN FACT...THIS WAS THE WARMEST DAY SINCE AUGUST 26TH OF LAST YEAR WHEN THE HIGH TEMPERATURE REACHED 99 DEGREES.

THE LAST TIME THE MERCURY TOPPED OUT AT 98 DEGREES WAS BACK ON AUGUST 24TH 2001.

OFFICIAL TEMPERATURES FOR THE LITTLE ROCK AREA ARE RECORDED BY THE NATIONAL WEATHER SERVICE AT THE NORTH LITTLE ROCK AIRPORT.

$$

C.

NOUS41 KJAN 261900
PNSJAN

PUBLIC INFORMATION STATEMENT. . .SERVICE TEST
NATIONAL WEATHER SERVICE JACKSON MS
200 PM CDT TUE JUN 18 2002

TO: FAMILY OF SERVICES / FOS / SUBSCRIBERS...NOAA WEATHER WIRE SERVICE /NWWS/ SUBSCRIBERS...EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/ SUBSCRIBERS...NOAAPORT SUBSCRIBERS...EMERGENCY ALERT SYSTEM /EAS/ PARTICIPANTS...OTHER NATIONAL WEATHER SERVICE /NWS/ CUSTOMERS AND PARTNERS...NWS EMPLOYEES

FROM: JOHN Q. WEATHER
METEOROLOGIST-IN-CHARGE

SUBJECT: PRODUCT BACKUP TESTING - HOMELAND SECURITY
100 PM - 130 PM CDT WED JUNE 26 2002

IN A CONTINUING EFFORT TO PREPARE THE NATIONAL WEATHER SERVICE /NWS/ FOR THE CONTINUANCE OF CRITICAL OPERATIONS AND SERVICES TO THE PUBLIC DURING EMERGENCY SITUATIONS...OUR OFFICE WILL BE EXERCISING SERVICE BACK-UP PLANS.

ON WEDNESDAY...JUNE 26...2002...THE NWS OFFICE IN JACKSON MS...WILL COMPLETE A TEST OF CERTAIN CRITICAL PRODUCTS FROM THEIR PRIMARY BACKUP OFFICE...WFO SHREVEPORT LA...INCLUDING WATCHES...WARNINGS... ADVISORIES...

```
STATEMENTS...AND FORECASTS.  IF INCLEMENT WEATHER OCCURS...THE TEST WILL BE
RESCHEDULED FOR THURSDAY JUNE 27...2002.

THE PRODUCT NAMES...WMO HEADINGS AND AWIPS IDENTIFIERS THAT WILL BE TESTED ARE
AS FOLLOWS:

PRODUCT NAME                  PRODUCT ID        WMO HEADER CODE

FLASH FLOOD WATCH             FFA               WGUS64
SEVERE THUNDERSTORM WARNING   SVR               WUUS1
CIVIL EMERGENCY MESSAGE       CEM               WOUS44
DENSE FOG ADVISORY            NPW               WWUS74

WE APPRECIATE YOUR CONTINUED SUPPORT AND CONSIDERATION DURING THE PRODUCT
BACKUP TEST FOR HOMELAND SECURITY.  FOR ADDITIONAL INFORMATION...CONTACT:

            JANE DOE
            WARNING COORDINATION METEORLOGIST
            234 WEATHER SERVICE DR.
            JACKSON MS 39232
            PHONE: 601-936-2189
            E-MAIL: JANE.DOE@NOAA.GOV

END

$$
```

D.

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ABUS34 KLOT 180016
PNSLOT

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE CHICAGO IL
716 PM CDT WED JUL 17 2002

WEATHER HISTORY IN NORTH CENTRAL AND NORTHEAST ILLINOIS

JULY 18 1996. INTENSE RAINSTORMS MOVED THROUGH MUCH OF THE
CHICAGO METRO AREA CAUSING WIDESPREAD FLOODING. IN AURORA 16.91
INCHES OF RAIN FELL...ESTABLISHING A NEW STATE RECORD FOR THE MOST
RAIN IN A SINGLE DAY. OTHER HEAVY RAIN TOTALS INCLUDED 13.6 INCHES
IN JOLIET... 9.24 INCHES IN WHEATON... 8.09 INCHES AT DEKALB AND 7.82
INCHES IN THE CITY OF ELGIN.

END

$$
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3. State Weather Summary

A.

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AWUS43 KOMA 201424
SWSNE

NEBRASKA STATE WEATHER SUMMARY
NATIONAL WEATHER SERVICE OMAHA/VALLEY NE
924 AM CDT MON MAY 20 2002
```

```
SKIES REMAINED MOSTLY CLOUDY WEST OF AN AINWORTH TO ORD TO SUPERIOR LINE
MONDAY MORNING.  EVEN A FEW SPRINKLES WERE INDICATED BY RADAR OVER SOUTH
CENTRAL AREAS.  SKIES WERE SUNNY ACROSS THE EAST...AND ALSO OVER PARTS OF THE
PANHANDLE.

TEMPERATURES AROUND THE STATE BY 9 AM CDT WERE IN THE UPPER 40S
AND 50S...RANGING FROM 46 DEGREES AT AINSWORTH UP TO 56 DEGREES
AT MCCOOK.  OVERNIGHT LOWS THROUGH 7 AM CDT WERE ABOVE FREEZING...
VARYING FROM 34 DEGREES AT AINSWORTH...COLUMBUS...AND ONEILL...
UP TO 50 DEGREES AT CHADRON...HASTINGS...HOLDREGE...LEXINGTON...
AND NORTH PLATTE.

WINDS THIS MORNING WERE EAST AT LESS THAN 15 MPH ACROSS THE
EAST...AND SOUTHEAST AT 10 TO 20 MPH WITH AREAS OF HIGHER GUSTS
OVER WESTERN NEBRASKA.
$$
KLEMM
```

B.

```
AWUS45 KTFX 201101
SWSMT

MONTANA STATE WEATHER SUMMARY
NATIONAL WEATHER SERVICE BILLINGS MT
500 AM MDT MON MAY 20 2002

SHOWERS AND THUNDERSTORMS MOVED THROUGH MUCH OF WESTERN MONTANA LAST
EVENING...BUT HAD ENDED BY MIDNIGHT.  GUSTY WINDS OVER 60 MPH WERE REPORTED
LAST EVENING JUST SOUTH OF MISSOULA...AND HAIL ONE INCH IN DIAMETER WAS
REPORTED FROM A THUNDERSTORM NEAR PINNACLE...IN NORTHWEST MONTANA.

WINDS WERE GUSTY EAST OF THE ROCKIES WITH SPEEDS OF 25 TO 35 MPH BEING
COMMON. HAVRE REPORTED A PEAK GUST OF 46 MPH...AND GREAT FALLS REPORTED A GUST
TO 41 MPH. TEMPERATURES ACROSS THE STATE REMAINED MAINLY IN THE 40S AND 50S
OVERNIGHT UNDER PARTLY CLOUDY SKIES.

IT WILL BE PARTLY CLOUDY TODAY IN THE EAST...AND CLOUDS WILL INCREASE
IN THE WEST.  SHOWERS AND THUNDERSTORMS WILL DEVELOP BY AFTERNOON...MAINLY IN
THE WEST. GUSTY WINDS WILL CONTINUE EAST OF THE ROCKIES.  TEMPERATURES ARE
EXPECTED TO CLIMB INTO THE 70S AND 80S.
$$
```

4. Regional Weather Summary.

A.

```
AWUS81 KLWX 230852
RWSLWX
MDZ002>007-009>011-013-014-016>018-WVZ048>055-VAZ021-025>031-036>042-
050>057-DCZ001-211000-

REGIONAL WEATHER SUMMARY FOR MARYLAND WEST OF THE CHESAPEAKE BAY AND
EAST OF GARRETT COUNTY... THE DISTRICT OF COLUMBIA... NORTHERN
VIRGINIA... THE NORTHERN AND CENTRAL SHENANDOAH VALLEY AND THE
EASTERN PANHANDLE OF WEST VIRGINIA.
NATIONAL WEATHER SERVICE BALTIMORE/WASHINGTON
500 AM EDT WED MAY 22 2002
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```
SKIES WERE CLEAR ACROSS THE REGION EARLY THIS MORNING. EARLY MORNING
TEMPERATURES WERE IN THE 30S AND 40S.

HIGH PRESSURE WILL REMAIN OVER THE REGION TODAY. UNDER SUNNY SKIES
TEMPERATURES WILL CLIMB WELL INTO THE 70S.
$$

DMW
```

B.

```
AWUS81 KBOX 231557
RWSBOX
CTZ002>004-MAZ002>024-NHZ011-012-RIZ001>007-212100-

REGIONAL WEATHER SUMMARY FOR SOUTHERN NEW ENGLAND
NATIONAL WEATHER SERVICE TAUNTON MA
1200 PM EDT THU MAY 23 2002

SUNNY SKIES PREVAILED ACROSS SOUTHERN NEW ENGLAND MIDDAY THURSDAY.
TEMPERATURES AT NOON RANGED FROM THE UPPER 50S ALONG SOUTHEAST COASTAL NEW
ENGLAND TO THE LOWER 70S ACROSS THE INTERIOR.

HIGH PRESSURE MOVING OFF THE COAST WILL PROVIDE THE REGION WITH
A MOSTLY SUNNY AND MILD AFTERNOON.  HIGHS WILL BE IN THE LOWER TO
MID 70S. THE EXCEPTION WILL BE ALONG THE SOUTHEAST COAST WHERE AN
ONSHORE FLOW WILL HOLD READINGS NEAR 60.

IT WILL BE MOSTLY CLEAR TONIGHT WITH LOWS IN THE 40S TO LOWER 50S.

A COLD FRONT WILL MOVE INTO WESTERN AND NORTHERN NEW YORK FRIDAY
MORNING...THEN REACH OUR AREA FRIDAY EVENING.  THE FRONT WILL LACK
DEEP MOISTURE...SO FRIDAY LOOKS TO BE PARTLY SUNNY WITH A FEW
SHOWERS MOVING THROUGH LATE IN THE DAY OR IN THE EVENING.  THE BEST
CHANCE FOR RAIN WILL BE IN WESTERN LOCATIONS.  HIGHS FRIDAY WILL BE
IN THE 70S TO LOWER 80S...COOLER ALONG THE SOUTH COAST.

FAIR WEATHER RETURNS SATURDAY...AS HIGH PRESSURE MOVES QUICKLY FROM THE
EASTERN GREAT LAKES SATURDAY MORNING...TO EAST OF NEW ENGLAND BY SATURDAY
EVENING. AN AREA OF LOW PRESSURE WILL MOVE ACROSS SOUTHERN NEW ENGLAND
SATURDAY NIGHT AND SUNDAY...BRINGING THE POSSIBILITY OF SHOWERS.
$$
```

5. State Weather Roundup.

A.

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ASUS43 KTOP 211405
SWRKS

KANSAS STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE GOODLAND KS
900 AM CDT TUE MAY 21 2002

NOTE:  "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

KSZ001>006-013>018-027>032-041>047-211500-
```

```
NORTHWEST KANSAS
CITY            SKY/WX    TMP DP  RH WIND       PRES   REMARKS
GOODLAND        PTSUNNY   56  45  66 S30G38    29.99F
HAYS            SUNNY     59  48  67 SE23G26   30.13F
HILL CITY       SUNNY     58  51  78 SE21G28   30.11F
RUSSELL         MOSUNNY   58  51  78 S20G26    30.16S
&&

KSZ061>065-074>080-084>089-211500-
SOUTHWEST KANSAS
CITY            SKY/WX    TMP DP  RH WIND       PRES   REMARKS
DODGE CITY      SUNNY     60  48  64 S26G32    30.11F
ELKHART           N/A     60  40  47 SE21        N/A
GARDEN CITY     MOSUNNY   59  45  59 SE24G31   30.08F
LIBERAL         CLOUDY    61  43  51 S20G26    30.09S
&&

KSZ066>073-081>083-090>101-211500-
SOUTHEAST KANSAS
CITY            SKY/WX    TMP DP  RH WIND       PRES   REMARKS
CHANUTE         MOSUNNY   56  44  64 E14       30.28S
COFFEYVILLE     PTSUNNY   59  46  62 E8        30.27S
HUTCHINSON      SUNNY     60  49  66 SE15G20   30.21F
MEDICINE LODGE   N/A      61  52  72 SE15      30.17F
NEWTON          MOSUNNY   55  45  67 SE14G18   30.25S
PARSONS         PTSUNNY   55  44  66 VRB3      30.29R
WICHITA INTL    MOSUNNY   60  49  66 SE13      30.22S
WICHITA JABRA   SUNNY     58  46  64 SE13      30.23S
WINFIELD        MOSUNNY   60  50  69 SE9       30.24S
&&

KSZ007>012-019>026-033>040-048>060-102>105-211500-
NORTHEAST KANSAS
CITY            SKY/WX    TMP DP  RH WIND       PRES   REMARKS
CONCORDIA       CLOUDY    53  42  66 SE16      30.23F
EMPORIA         CLOUDY    53  44  71 SE13      30.28S
LAWRENCE        SUNNY     56  43  61 SE16      30.33F
MANHATTAN       CLOUDY    56  45  66 SE15      30.27F
OLATHE IND      SUNNY     55  44  66 SE14      30.34R
OLATHE EXE      MOSUNNY   52  45  77 SE15      30.34S
SALINA          SUNNY     59  44  57 SE15      30.22F
TOPEKA BILLARD  SUNNY     55  43  63 E14       30.32F
TOPEKA FORBES   SUNNY     56  46  69 SE13      30.30F
$$
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B.

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ASUS44 KLUB 281410
SWRTX

WEST TEXAS STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE LUBBOCK TX
900 AM CDT TUE MAY 28 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

TXZ006-008-012-026-029-035-037-281500-
TEXAS PANHANDLE/SOUTH PLAINS
CITY            SKY/WX    TMP DP  RH WIND       PRES   REMARKS
DALHART         FOG       52  52 100 CALM      30.04R VSB 1/4
```

```
BORGER         MOSUNNY   61  54  77 CALM      30.01S
AMARILLO       CLOUDY    57  55  93 CALM      30.01R
CHILDRESS      CLOUDY    63  60  90 NW7       29.97R
LUBBOCK        CLOUDY    62  59  90 E6        29.99R
PLAINVIEW      CLOUDY    61  57  88 SE3       29.99S
SPUR             N/A     64  61  91 S3        29.95R
&&

TXZ060>062-072-075-082-281500-
PERMIAN BASIN/TRANS PECOS/CONCHO VALLEY/BIG COUNTRY
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
WINK           CLOUDY    70  60  70 N14       29.93R
ODESSA         CLOUDY    64  60  87 NE12      29.97R
MIDLAND        CLOUDY    63  61  93 NE12      29.97R
FORT STOCKTON  SUNNY     70  63  78 SW7       29.93R
DRYDEN           N/A     70  67  90 SE13      29.93R
SAN ANGELO     CLOUDY    72  65  78 S15G21    29.91R
&&

TXZ055-057-080-281500-
FAR WEST/SOUTHWEST MOUNTAINS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
EL PASO        SUNNY     66  28  24 CALM      29.99R
MARFA          SUNNY     66  36  32 S6        30.09R
GUADALUPE PASS SUNNY     68  31  25 VRB3      30.08R
&&

TXZ021>024-027>030-281500-
TEXAS TECH WEST TEXAS MESONET/TEXAS PANHANDLE/NORTHERN SOUTH PLAINS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
ABERNATHY 5NE    N/A     60  58  93 E5        30.02R
AMHERST 1NE      N/A     61  55  81 E2        30.03R
FLOYDADA 2NE     N/A     61  58  91 SE3       30.00R
OLTON 6S         N/A     60  58  94 SE5       30.02S
PLAINVIEW 1S     N/A     60  56  85 SE3       29.98S
ROARING SPRGS    N/A     62  60  93 S5        29.99R
SILVERTON 7E     N/A     60  56  87 NE2       29.99R
&&

TXZ033>036-039>042-045>047-281500-
TEXAS TECH WEST TEXAS MESONET/SOUTH PLAINS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
BROWNFIELD 2S    N/A     62  57  84 E9        30.01S
LAMESA 2SE       N/A     62  59  91 NE7       30.00R
LEVELLAND 4S     N/A     61  56  84 SE7       30.02S
ODONNELL 1N      N/A     63  58  83 E7        30.00S
PLAINS 3N        N/A     58  57  97 E8        30.03R
RALLS 1SE        N/A     61  59  93 E5        30.01R
REESE CENTER     N/A     61  58  91 E7        30.01S
SEMINOLE 2N      N/A     61  58  90 NE9       30.01R
SUNDOWN 8SW      N/A     59  58  96 E6        30.02R
SLATON 2NE       N/A     63  59  86 E7        30.01S
TAHOKA 3NE       N/A     62  58  88 E7        30.00S
WHITE RVR LK 6   N/A     63  60  89 E2        29.99R
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C.

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ASUS44 KFWD 281410
SWRTX
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NORTH TEXAS STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE FORT WORTH TX
900 AM CDT TUE MAY 28 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

TXZ118-119-281500-
LOCAL DALLAS FORT WORTH AREA

| CITY | SKY/WX | TMP | DP | RH | WIND | PRES | REMARKS |
|---|---|---|---|---|---|---|---|
| DFW AIRPORT | CLOUDY | 69 | 64 | 84 | S7 | 29.88F | |
| DAL LOVE | CLOUDY | 71 | 64 | 78 | S6 | 29.88F | |
| FTW MEACHAM | LGT RAIN | 67 | 64 | 90 | S10 | 29.86F | |
| DAL-ADDISON | CLOUDY | 72 | 63 | 73 | SE6 | 29.89F | |
| DAL-REDBIRD | PTSUNNY | 68 | 63 | 84 | S3 | 29.89F | |
| FTW-ALLIANCE | LGT RAIN | 67 | 64 | 90 | W6 | 29.87F | |
| FTW-NAS-JRB | LGT RAIN | 67 | 64 | 90 | S13 | 29.86F | |
| ARLINGTON | PTSUNNY | 69 | 62 | 78 | S6 | 29.89F | |

&&

TXZ091>095-102>107-117-120>123-130>135-281500-
OTHER NORTH CENTRAL TEXAS STATIONS

| CITY | SKY/WX | TMP | DP | RH | WIND | PRES | REMARKS |
|---|---|---|---|---|---|---|---|
| DENTON | LGT RAIN | 67 | 66 | 97 | SW5 | 29.88F | |
| GAINESVILLE | MOCLDY | 66 | 66 | 100 | SE3 | 29.92F | |
| GREENVILLE | PTSUNNY | 72 | 66 | 83 | S6 | 29.94 | |
| MCKINNEY | PTSUNNY | 70 | 65 | 84 | S5 | 29.89F | |
| PARIS | PTSUNNY | 70 | 66 | 88 | E3 | 29.95S | |
| SHERMAN | CLOUDY | 70 | 66 | 88 | CALM | 29.90 | |
| TERRELL | PTSUNNY | 70 | 65 | 84 | VRB3 | 29.94R | |

&&

TXZ0141>148-156>162-174-175-281500-
CENTRAL TEXAS

| CITY | SKY/WX | TMP | DP | RH | WIND | PRES | REMARKS |
|---|---|---|---|---|---|---|---|
| WACO | PTSUNNY | 68 | 64 | 87 | NW15G20 | 29.95R | |
| MCGREGOR | PTSUNNY | 66 | 63 | 88 | NW16G21 | 29.96R | |
| CORSICANA | PTSUNNY | 70 | 63 | 78 | NW14 | 29.95R | |
| GRAY AAF | PTSUNNY | 72 | 61 | 68 | SW8 | 29.93F | |
| KILLEEN | PTSUNNY | 72 | 63 | 73 | SW6 | 29.93R | |
| TEMPLE | PTSUNNY | 70 | 63 | 78 | NW8 | 29.91R | |

&&

TXZ083>090-098>101-113>116-127>129-139-140-154-155-281500-
WESTERN NORTH TEXAS

| CITY | SKY/WX | TMP | DP | RH | WIND | PRES | REMARKS |
|---|---|---|---|---|---|---|---|
| ABILENE | PTSUNNY | 61 | 60 | 97 | SE10 | 29.96S | THUNDER |
| MINERAL WELLS | PTSUNNY | 65 | 64 | 97 | W10 | 29.92S | |
| WICHITA FALLS | LGT RAIN | 66 | 65 | 96 | S7 | 29.90F | FOG |

&&

TXZ096-097-108>112-124>126-136>138-149>153-163>167-281500-
EASTERN NORTH TEXAS

| CITY | SKY/WX | TMP | DP | RH | WIND | PRES | REMARKS |
|---|---|---|---|---|---|---|---|
| LONGVIEW | CLOUDY | 71 | 67 | 87 | E7 | 29.93R | |
| LUFKIN | CLOUDY | 73 | 71 | 93 | SE6 | 29.92R | |
| NACOGDOCHES | CLOUDY | 73 | 70 | 88 | MISG | 29.89R | |
| TYLER | NOT AVBL | | | | | | |

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D.

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ASUS44 KEWX 281410
SWRTX

SOUTH TEXAS STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE AUSTIN/SAN ANTONIO TX
900 AM CDT TUE MAY 28 2002

NOTE: "FAIR" INDICATED FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

TXZ171-172-183>190-281500-
TEXAS HILL COUNTRY AND EDWARDS PLATEAU
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
JUNCTION       CLOUDY    69  66  90 S14       29.92S
BURNET         SUNNY     69  62  78 S12         N/A
HONDO          MOSUNNY   71  63  75 SE10      29.94F
DEL RIO        CLOUDY    74  69  85 SE12      29.90R
LAUGHLIN AFB   LGT RAIN  72  68  88 SE10      29.92R
&&

TXZ176>182-195>201-210>216-226-227-235>238-281500-
CENTRAL AND SOUTH CENTRAL TEXAS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
GEORGETOWN     SUNNY     70  63  78 SW10      29.89R
AUSTIN/BERGSTM MOSUNNY   71  64  78 SW8       29.90S
AUSTIN/MABRY   SUNNY     69  65  86 S6        29.90S
SAN MARCOS     SUNNY     72  63  73 SW10      29.91R
NEW BRAUNFELS  SUNNY     70  64  81 S6        29.91S
RANDOLPH AFB   MOSUNNY   72  63  73 S9        29.92R
SAN ANTONIO    MOSUNNY   71  65  81 S14       29.93S
STINSON FIELD  SUNNY     73  65  75 S9        29.91S
LA GRANGE      NOT AVBL
&&

TXZ176>182-195>201-210>213-226-235-281500-
SOUTHEAST TEXAS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
COLLEGE STN    SUNNY     70  64  81 W6        29.87F
BRENHAM        SUNNY     77  64  65 W6        29.88R
HUNTSVILLE     CLOUDY    74  68  81 CALM      29.91R
CONROE         PTSUNNY   74  68  81 S8        29.85S
HOUSTON BUSH   PTSUNNY   77  71  82 SE9       29.85R
HOUSTON HOBBY  MOSUNNY   76  70  82 S13       29.85F
HOUSTON CLOVER MOSUNNY   77  71  82 SE13      29.88S
HOUSTON HOOKS  MOSUNNY   77  69  76 SE8       29.85R
ELLINGTON FLD  MOSUNNY   77  73  88 SE14      29.86F
SUGAR LAND     MOSUNNY   78  72  81 S15       29.85S
&&

TXZ214>216-227-236>238-281500-
THE UPPER TEXAS COAST
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
GALVESTON      MOSUNNY   78  69  73 SE15      29.89S
ANGLETON       MOSUNNY   78  72  81 SE12      29.89R
PALACIOS       SUNNY     78  71  79 SE15      29.89F
PORT ARTHUR    CLOUDY    75  71  87 SE8       29.89F
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TXZ229>234-239>247-281500-
TEXAS COASTAL BEND AND RIO GRANDE PLAINS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
VICTORIA       SUNNY     77  71  82 S13        29.89S
ROCKPORT       SUNNY     80  71  74 SE16       29.89F
CORPUS CHRISTI MOSUNNY   80  72  76 SE16       29.91R
CORPUS NAS     NOT AVBL
ALICE          MOSUNNY   80  70  71 SE16G20    29.90F
KINGSVILLE NAS PTSUNNY   80  71  74 SE13       29.91S
COTULLA        NOT AVBL
LAREDO         MOSUNNY   77  63  61 SE21G29    29.85F
&&

TXZ248>255-281500-
DEEP SOUTH TEXAS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
BROWNSVILLE    PTSUNNY   82  72  71 SE14       29.90S
PORT ISABEL    MOSUNNY   82  72  71 SE17       29.90S
HARLINGEN      SUNNY     82  72  71 SE14       29.90R
MCALLEN        PTSUNNY   79  71  76 SE8        29.92R
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6. Regional Weather Roundup.

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ASUS41 KBOX 291310
RWRBOX

REGIONAL WEATHER ROUNDUP FOR NEW ENGLAND
NATIONAL WEATHER SERVICE TAUNTON MA
900 AM EDT WED MAY 29 2002

NOTE:  "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.  THE FOLLOWING
OBSERVATION LOCATIONS DO NOT REPORT PRESENT WEATHER...PROVINCETOWN...
SMITHFIELD...BLOCK ISLAND...KEENE...AND OXFORD.

MAZALL-291400-
EASTERN MASSACHUSETTS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
BOSTON         FOG       60  58  92 E5         30.23S VSB 3/4 TC  16
BEVERLY        CLOUDY    61  59  93 VRB3       30.22F FOG     TC  16
LAWRENCE       CLOUDY    58  58 100 CALM       30.24F FOG     TC  14
BEDFORD        CLOUDY    61  61 100 E5         30.22S FOG     TC  16
BLUE HILL        N/A     63  63 100 SE6        30.21S TC  17
NORWOOD        CLOUDY    66  64  93 SE5        30.21S FOG     TC  19
PLYMOUTH       CLOUDY    63  62  97 S3         30.23R FOG     TC  17
TAUNTON        CLOUDY    65  63  93 SE5        30.20S FOG     TC  18
NEW BEDFORD    CLOUDY    63  62  97 SE8        30.22S FOG     TC  17
&&

MAZALL-291400-
CAPE COD AND THE ISLANDS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
FALMOUTH       LGT RAIN  63  63 100 SE6        30.22S FOG     TC  17
HYANNIS        FOG       59  59 100 S7         30.23R VSB 3/4 TC  15
CHATHAM        FOG       57  57 100 S5         30.24S VSB 1/4 TC  14
PROVINCETOWN   CLOUDY    63  59  88 S8         30.21S TC  17
NANTUCKET      CLOUDY    59  57  93 CALM       30.24R TC  15
MARTHAS VNYRD  CLOUDY    63  61  93 SE3        30.23S TC  17
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MAZALL-291400-
CENTRAL AND WESTERN MASSACHUSETTS
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
WORCESTER      FOG       63  62  97 S6         30.23R VSB 1/2 TC  17
FITCHBURG      CLOUDY    65  61  87 VRB5       30.21S TC  18
ORANGE         CLOUDY    64  62  93 S6         30.21R FOG     TC  18
SPRINGFIELD    CLOUDY    64  64 100 E2         30.20S FOG     TC  18
WESTFIELD      CLOUDY    64  64 100 CALM       30.19R FOG     TC  18
NORTH ADAMS    PTSUNNY   63  61  93 VRB6       30.18S TC  17
PITTSFIELD     CLOUDY    64  61  90 CALM       30.20S FOG     TC  18
&&

RIZALL-291400-
RHODE ISLAND
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
PROVIDENCE     CLOUDY    64  62  93 S8         30.22S FOG     TC  18
NEWPORT        FOG       61  61 100 SE7        30.23S VSB 1/4 TC  16
BLOCK ISLAND   PTSUNNY   63  61  94 S6         30.22S TC  17
SMITHFIELD     CLOUDY    64  63  94 S5         30.20R TC  18
WESTERLY       CLOUDY    63  60  90 SE6        30.22S FOG     TC  17
&&

CTZALL-291400-
CONNECTICUT
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
BRADLEY INTL   CLOUDY    65  64  97 SW6        30.19S FOG     TC  18
HARTFORD       CLOUDY    66  63  90 S6         30.20R TC  19
BRIDGEPORT     CLOUDY    61  60  97 E8         30.19S FOG     TC  16
DANBURY        CLOUDY    63  62  97 SE6        30.20F FOG     TC  17
GROTON         CLOUDY    62  61  96 E8         30.21S FOG     TC  17
NEW HAVEN      CLOUDY    63  60  90 E5         30.20R TC  17
MERIDEN        CLOUDY    64  62  93 S5         30.18F FOG     TC  18
WILLIMANTIC    PTSUNNY   65  62  90 S5         30.21S FOG     TC  18
OXFORD         FOG       63  61  94 S5         30.22  VSB 1/4 TC  17
&&


MEZ002-015-021-024-NHZ003-005-008-011-012-014-VTZ005-008-291400-
NORTHERN NEW ENGLAND
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
PORTLAND ME    CLOUDY    54  53  97 VRB3       30.24R FOG     TC  12
BANGOR ME      SUNNY     59  55  87 S7         30.22S TC  15
CONCORD NH     CLOUDY    61  59  93 S8         30.22R FOG     TC  16
MANCHESTER NH  FOG       60  58  92 E3         30.22S VSB 1   TC  16
NASHUA NH      FOG       61  61 100 CALM       30.24S VSB 1/2 TC  16
PORTSMOUTH NH  CLOUDY    55  54  94 SE5        30.24R FOG     TC  13
JAFFREY NH     PTSUNNY   64  61  90 S6         30.22S TC  18
KEENE NH       PTSUNNY   64  61  88 CALM       30.19F TC  18
BURLINGTON VT  MOSUNNY   69  60  73 S16G23     30.13S TC  21
MT. WASHINGTON NOT AVBL
&&

NYZ052-076-291400-
EASTERN NEW YORK
CITY           SKY/WX    TMP DP  RH WIND       PRES   REMARKS
ALBANY         PTSUNNY   66  63  90 S6         30.16S FOG     TC  19
NEW YORK CITY  CLOUDY    63  61  93 NE6        30.17S FOG     TC  17
&&
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ANZALL-291400-
MARINE OBSERVATIONS
STATION/POSITION   TIME   TEMP       WIND      PRES     VSBY    WAVE
                         AIR SEA   DIR/SP/G                    HT/PER
                  (UTC)    (F)   (DEG/KT/KT)   (MB)     (MI)   (FT/S)
BOSTON BUOY       1300    53 53   30/  4/  6  1022.8S           1/ 8
BUZZARDS BAY CMA  1200    59 54  130/  8/  8  1023.5R           1/ 8
&&

.....................KEY.......................
SKY/WX - SKY CONDITION/PRESENT WEATHER
TMP    - TEMPERATURE IN FAHRENHEIT
DWPT   - DEWPOINT IN FAHRENHEIT
RH     - RELATIVE HUMIDITY IN PERCENT
WIND   - DIRECTION AND SPEED IN MPH
PRES   - MEAN SEA LEVEL PRESSURE IN INCHES OF HG
WCI    - WIND CHILL INDEX
VSB    - VISIBILITY IN MILES
HX     - HEAT INDEX
TC     - TEMPERATURE IN CELSIUS
VRB    - VARIABLE WIND DIRECTION
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7. State Maximum/Minimum Temperature and Precipitation Table

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ASUS53 KFSD 181244
STPSD

SOUTH DAKOTA MAX/MIN TEMPERATURE AND PRECIPITATION TABLE
NATIONAL WEATHER SERVICE SIOUX FALLS SD
742 AM CDT MON MAY 20 2002

YESTERDAY              12 HR       24 HR
                       HIGH        LOW         PCPN

ABERDEEN               60          31          0.00
BROOKINGS              57          36          0.00
BUFFALO                65          42          0.00
CHAMBERLAIN            63          32          0.00
CUSTER                 55          40          0.00
FAITH                  64          37          0.00
HURON                  63          35          0.00
MITCHELL               64          34          0.00
MOBRIDGE               64          34          0.00
PHILIP                 66          50          0.00
PIERRE                 65          27          0.00
PINE RIDGE             65          49          0.00
RAPID CITY             64          40          0.00
RAPID CITY AIRPORT     65          41          0.00
SIOUX FALLS            62          31          0.00
SISSETON               60          30          0.00
WATERTOWN              58          34          0.00
WINNER                 63          33          0.00
YANKTON                67          MM          0.00
$$
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8. Regional Maximum/Minimum Temperature and Precipitation Table

ASUS61 KBOX 201219
RTPBOX

REGIONAL MAX/MIN TEMPERATURE AND PRECIPITATION TABLE
NATIONAL WEATHER SERVICE TAUNTON MA
818 AM EDT THU JUN 20 2002

THE FOLLOWING IS A SUMMARY REPORT OF THE 12 HOUR LOW TEMPERATURE...THE 24 HOUR HIGH TEMPERATURE AND 24 HOUR PRECIPITATION TOTAL. NO ENTRY IN THE PRECIPITATION COLUMN INDICATES NO MEASURABLE PRECIPITATION WAS REPORTED.

...EASTERN MASSACHUSETTS...

| STATION | 12 HR MIN | 24 HR MAX | 24 HR PRECIPITATION |
|---|---|---|---|
| BEDFORD | 50 | 76 | |
| BEVERLY | 50 | 73 | 0.01 |
| BOSTON | 57 | 69 | 0.03 |
| BLUE HILL | 57 | 75 | 0.05 |
| LAWRENCE | 52 | 77 | |
| NEW BEDFORD | 52 | 77 | |
| NORWOOD | 50 | 80 | |
| PLYMOUTH | 50 | 75 | |
| TAUNTON | 50 | 77 | |

...CAPE COD AND THE ISLANDS...

| STATION | 12 HR MIN | 24 HR MAX | 24 HR PRECIPITATION |
|---|---|---|---|
| CHATHAM | 53 | 74 | 0.01 |
| FALMOUTH | 52 | 75 | |
| HYANNIS | 50 | 75 | |
| MARTHAS VINEYARD | 46 | 75 | |
| NANTUCKET | 50 | 72 | |
| PROVINCETOWN | 50 | 75 | |

...CENTRAL AND WESTERN MASSACHUSETTS...

| STATION | 12 HR MIN | 24 HR MAX | 24 HR PRECIPITATION |
|---|---|---|---|
| FITCHBURG | 51 | 78 | 0.17 |
| ORANGE | 50 | 80 | |
| SPRINGFIELD | 57 | 79 | |
| WESTFIELD | 52 | 80 | |
| WORCESTER | 57 | 74 | |

...RHODE ISLAND...

| STATION | 12 HR MIN | 24 HR MAX | 24 HR PRECIPITATION |
|---|---|---|---|
| BLOCK ISLAND | 55 | 73 | |
| NEWPORT | 53 | 73 | |
| PROVIDENCE | 56 | 78 | 0.04 |
| LINCOLN | 55 | 75 | |
| WESTERLY | 54 | 76 | |

...NORTHERN CONNECTICUT...

| STATION | 12 HR MIN | 24 HR MAX | 24 HR PRECIPITATION |
|---|---|---|---|
| BRADLEY INTL | 56 | 82 | 0.26 |
| HARTFORD | 57 | 80 | 0.25 |

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WILLIMANTIC         52      80        0.06


...SOUTHWEST AND SOUTH CENTRAL NEW HAMPSHIRE...
                   12 HR   24 HR      24 HR
STATION             MIN     MAX    PRECIPITATION
MANCHESTER           54      78
KEENE
JAFFREY              49      76        0.14
$$
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9. Record Event Report.

A.

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SXUS71 KBOX
RERBOX

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE TAUNTON MA
940 AM EDT TUE JUN 4 2002

...RECORD HIGH TEMPERATURE SET AT BOSTON MA...

A RECORD HIGH TEMPERATURE OF 80 DEGREES WAS SET AT BOSTON TODAY. THIS BREAKS
THE OLD RECORD OF 75 DEGREES SET IN 1999.
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B.

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SXUS72 KJAX 220237
RERJAX

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE JACKSONVILLE FL
1030 PM EDT TUE MAY 21 2002

...RECORD LOW MAXIMUM TEMPERATURES TODAY (TUE 5/21)...

                        NEW RECORD  PREVIOUS RECORD

JACKSONVILLE FL (JAX)         75                76 IN 1919
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HESS
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C.

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SXUS75 KTFX 230811
RERTFX

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE GREAT FALLS MT
125 AM MDT THU MAY 23 2002

...RECORD COOL MAXIMUM TEMPERATURES IN NORTH CENTRAL AND SOUTHWEST MONTANA...

LOCATION          NEW RECORD       OLD RECORD         YEAR SET
CUT BANK                33               43          1927
GREAT FALLS             40               43          1903
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BELGRADE FIELD          40                49          1971

...RECORD PRECIPITATION IN NORTH CENTRAL AND SOUTHWEST MONTANA...

LOCATION          NEW RECORD  OLD RECORD  YEAR SET
BOZEMAN                1.01              0.97        1981
HELENA                 0.96              0.86        1981

...RECORD SNOWFALL IN NORTH CENTRAL AND SOUTHWEST MONTANA...

LOCATION          NEW RECORD  OLD RECORD  YEAR SET
GREAT FALLS            1.4               T           1993
$$
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10. Climatological Report (Daily).

A.

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CDHW40 PHFO 241241
CLIHFO

CLIMATE REPORT
NATIONAL WEATHER SERVICE HONOLULU, HI
236 AM HST FRI MAY 24 2002

.................................

...THE HONOLULU CLIMATE SUMMARY FOR MAY 23 2002...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1946 TO 2002

WEATHER ITEM    OBSERVED TIME  RECORD YEAR NORMAL DEPARTURE  LAST
                VALUE    (LST) VALUE       VALUE  FROM       YEAR
                                                  NORMAL

.............................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         84     526 PM  91    1995  85    -1       88
  MINIMUM         70     527 AM  65    1983  70     0       72
                                       1979
  AVERAGE         77                         78     1       80

PRECIPITATION (IN)
 YESTERDAY        0.00            1.90 1978  0.02  -0.02     0.00
 MONTH TO DATE    1.97                       0.62   1.35     0.04
 SINCE MAR 1      4.56                       3.62   0.94     0.95
 SINCE JAN 1      9.16                       8.70   0.46     1.70


SNOWFALL (IN)
 YESTERDAY        0.0
 MONTH TO DATE    0.0
 SINCE MAR 1      0.0
 SINCE JUL 1      0.0
 SNOW DEPTH       0

DEGREE DAYS
 HEATING
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  YESTERDAY        0                          0      0        0
  MONTH TO DATE    0                          0      0        0
  SINCE MAR 1      0                          0      0        0
  SINCE JUL 1      0                          0      0        0

 COOLING
  YESTERDAY       12                         13     -1       15
  MONTH TO DATE  304                        275     29      299
  SINCE MAR 1    941                        882     59      973
  SINCE JAN 1   1467                       1356    111     1567

.............................................................

WIND (MPH)
 HIGHEST WIND SPEED    14   HIGHEST WIND DIRECTION    NE (30)
 HIGHEST GUST SPEED    16   HIGHEST GUST DIRECTION    NE (30)
 AVERAGE WIND SPEED     5.3

SKY COVER
 POSSIBLE SUNSHINE  MM
 AVERAGE SKY COVER 0.1

WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    90           400 AM
 LOWEST     55           600 PM
 AVERAGE    73

.........................................................

THE HONOLULU CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   85        90      1979
 MINIMUM TEMPERATURE (F)   70        65      1975
                                             1959

SUNRISE AND SUNSET
 MAY 24 2002...........SUNRISE   550 AM HST   SUNSET   707 PM HST
 MAY 25 2002...........SUNRISE   550 AM HST   SUNSET   707 PM HST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
$$
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B.

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CDUS45 KTFX 240803
CLITFX


CLIMATE REPORT
NATIONAL WEATHER SERVICE GREAT FALLS MT
201 AM MDT FRI MAY 24 2002
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...THE GREAT FALLS CLIMATE SUMMARY FOR MAY 23 2002...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1892 TO 2002

| WEATHER ITEM | OBSERVED VALUE | TIME (LST) | RECORD VALUE | YEAR | NORMAL VALUE | DEPARTURE FROM NORMAL | LAST YEAR |
|---|---|---|---|---|---|---|---|
| **TEMPERATURE (F)** | | | | | | | |
| YESTERDAY | | | | | | | |
| MAXIMUM | 50 | 525 PM | 88 | 1988 | 67 | -17 | 84 |
| MINIMUM | 31 | 549 AM | 30 | 1949 | 40 | -9 | 45 |
| AVERAGE | 41 | | | | 54 | -13 | 65 |
| **PRECIPITATION (IN)** | | | | | | | |
| YESTERDAY | 0.06 | | 0.98 | 1914 | 0.09 | -0.03 | 0.00 |
| MONTH TO DATE | 1.64 | | | | 1.81 | -0.17 | 0.51 |
| SINCE OCT 1 | 4.18 | | | | 7.60 | -3.42 | 5.14 |
| SINCE JAN 1 | 3.32 | | | | 5.41 | -2.09 | 3.14 |
| **SNOWFALL (IN)** | | | | | | | |
| YESTERDAY | 0.6 | | 3.0 | 1949 | 0.0 | 0.6 | 0.0 |
| MONTH TO DATE | 6.7 | | | | 1.9 | 4.8 | 1.6 |
| SINCE MAR 1 | 31.2 | | | | 22.5 | 8.7 | 18.5 |
| SINCE JUL 1 | 58.0 | | | | 62.6 | -4.6 | 57.7 |
| SNOW DEPTH | 0 | | | | | | |
| **DEGREE DAYS** | | | | | | | |
| HEATING | | | | | | | |
| YESTERDAY | 24 | | | | 10 | 14 | 0 |
| MONTH TO DATE | 415 | | | | 300 | 115 | 276 |
| SINCE MAR 1 | 2680 | | | | 1925 | 755 | 1849 |
| SINCE JUL 1 | 7521 | | | | 7513 | 8 | 7781 |
| COOLING | | | | | | | |
| YESTERDAY | 0 | | | | 0 | 0 | 0 |
| MONTH TO DATE | 6 | | | | 0 | 6 | 4 |
| SINCE MAR 1 | 6 | | | | 1 | 5 | 4 |
| SINCE JAN 1 | 6 | | | | 1 | 5 | 4 |

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**WIND (MPH)**

| | | | |
|---|---|---|---|
| HIGHEST WIND SPEED | 17 | HIGHEST WIND DIRECTION | NW (330) |
| HIGHEST GUST SPEED | 21 | HIGHEST GUST DIRECTION | N (340) |
| AVERAGE WIND SPEED | 8.0 | | |

**SKY COVER**

POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.7

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WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT SNOW
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100          1200 AM
 LOWEST     45           200 PM
 AVERAGE    73

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THE GREAT FALLS CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   67        90      1922
 MINIMUM TEMPERATURE (F)   41        30      1995


SUNRISE AND SUNSET
 MAY 24 2002...........SUNRISE   539 AM MDT   SUNSET   907 PM MDT
 MAY 25 2002...........SUNRISE   538 AM MDT   SUNSET   908 PM MDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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C.

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CDUS45 KMSO 232233
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA, MT
431 PM MDT THU MAY 23 2002

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...THE MISSOULA CLIMATE SUMMARY FOR MAY 23 2002...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1893 TO 2002

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL

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TEMPERATURE (F)
 TODAY
  MAXIMUM         45    250 PM  89    1941  68    -23       88
  MINIMUM         36    537 AM  26    1966  41     -5       42
  AVERAGE         41                        55    -14       65


PRECIPITATION (IN)
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 TODAY            T             1.10 1980   0.07  -0.07     0.00
 MONTH TO DATE    1.42                      1.41   0.01     0.22
 SINCE OCT 1      8.07                      8.23  -0.16     6.92
 SINCE JAN 1      4.39                      5.29  -0.90     3.53


SNOWFALL (IN)
 TODAY            T
 MONTH TO DATE    4.1
 SINCE JAN 1     32.7
 SINCE JUL 1     52.1
 SNOW DEPTH       0


DEGREE DAYS
 HEATING
  TODAY           24                        10     14        0
  MONTH TO DATE  414                       300    114      294
  SINCE MAR 1   2179                      1748    431     1804
  SINCE JUL 1   7209                      7360   -151     7900


 COOLING
  TODAY            0                         0      0        0
  MONTH TO DATE    5                         0      5        0
  SINCE MAR 1      5                         0      5        0
  SINCE JAN 1      5                         0      5        0

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WIND (MPH)
 HIGHEST WIND SPEED    17   HIGHEST WIND DIRECTION     E (110)
 HIGHEST GUST SPEED    18   HIGHEST GUST DIRECTION     E (100)
 AVERAGE WIND SPEED     9.6


SKY COVER
 POSSIBLE SUNSHINE  MM
 AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT SNOW


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    85          1200 AM
 LOWEST     57          1100 AM
 AVERAGE    71

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THE MISSOULA CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
MAXIMUM TEMPERATURE (F)   68        93      1934
MINIMUM TEMPERATURE (F)   41        28      1916


SUNRISE AND SUNSET
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MAY 23 2002..........SUNRISE   553 AM MDT   SUNSET   914 PM MDT
MAY 24 2002..........SUNRISE   552 AM MDT   SUNSET   915 PM MDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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D.

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CDUS45 KMSO 241436
CLIMSO


CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA, MT
835 AM MDT FRI MAY 24 2002

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...THE MISSOULA CLIMATE SUMMARY FOR MAY 24 2002...
VALID AS OF 0800 AM LOCAL TIME.

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1893 TO 2002

WEATHER ITEM   OBSERVED RECORD YEAR NORMAL
                VALUE   VALUE       VALUE
.........................................
TEMPERATURE (F)
 TODAY
  MINIMUM         37     28    1916  41


PRECIPITATION (IN)
 TODAY            0.00


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SUNRISE AND SUNSET
MAY 24 2002..........SUNRISE   552 AM MDT   SUNSET   915 PM MDT
MAY 25 2002..........SUNRISE   551 AM MDT   SUNSET   916 PM MDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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11. Climatological Report (Longer Term).

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CXUS52 KCAE 010809
CLMCAE

CLIMATE REPORT
NATIONAL WEATHER SERVICE COLUMBIA SC
300 AM EDT WED MAY 1 2002

...THE COLUMBIA METRO AIRPORT CLIMATE SUMMARY FOR THE MONTH OF APRIL 2002...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1887 TO 2002
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| WEATHER | OBSERVED VALUE | DATE(S) | NORMAL VALUE | DEPART FROM NORMAL |
|---|---|---|---|---|
| TEMPERATURE (F) | | | | |
| RECORD | | | | |
| HIGH | 96 | 04/18/1896 | | |
| LOW | 26 | 04/20/1983 | | |
| HIGHEST | 92 | 04/19 | MM | MM |
| LOWEST | 41 | 04/05 | MM | MM |
| AVG. MAXIMUM | 79.8 | | 75.7 | 4.1 |
| AVG. MINIMUM | 58.1 | | 50.7 | 7.4 |
| MEAN | 69.0 | | 63.2 | 5.8 |
| DAYS MAX >= 90 | 4 | | | |
| DAYS MAX <= 32 | 0 | | | |
| DAYS MIN <= 32 | 0 | | | |
| DAYS MIN <= 0 | 0 | | | |
| PRECIPITATION (INCHES) | | | | |
| RECORD | | | | |
| MAXIMUM | 10.76 | 1936 | | |
| MINIMUM | 0.29 | 1994 | | |
| TOTALS | 1.60 | | 2.98 | -1.38 |
| DAILY AVG. | 0.05 | | 0.10 | -0.05 |
| DAYS >= .01 | 7 | | | |
| DAYS >= .10 | 3 | | | |
| DAYS >= .50 | 2 | | | |
| DAYS >= 1.00 | 0 | | | |
| GREATEST | | | | |
| 24 HR. TOTAL | 0.69 | 04/10 TO 04/11 | | |
| SNOWFALL (INCHES) | | | | |
| TOTALS | 0.0 | | | |
| SINCE 7/1 | 5.0 | | | |
| DAYS >= TRACE | 0 | | | |
| DEGREE_DAYS | | | | |
| HEATING TOTAL | 44 | | 126 | -82 |
| SINCE 7/1 | 2150 | | 2566 | -416 |
| COOLING TOTAL | 170 | | 71 | 99 |
| SINCE 1/1 | 219 | | 94 | 125 |

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WIND (MPH)
AVERAGE WIND SPEED                7.0
HIGHEST WIND SPEED/DIRECTION     30/290    DATE  04/22
HIGHEST GUST SPEED/DIRECTION     35/290    DATE  04/22

SKY COVER
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POSSIBLE SUNSHINE (PERCENT)   MM
AVERAGE SKY COVER           0.60
NUMBER OF DAYS FAIR            5
NUMBER OF DAYS PC             17
NUMBER OF DAYS CLOUDY          8

AVERAGE RH (PERCENT)     63

WEATHER CONDITIONS. NUMBER OF DAYS WITH
THUNDERSTORM               3     MIXED PRECIP               0
HEAVY RAIN                 2     RAIN                       4
LIGHT RAIN                10     FREEZING RAIN              0
LT FREEZING RAIN           0     HAIL                       0
HEAVY SNOW                 0     SNOW                       0
LIGHT SNOW                 0     SLEET                      0
FOG                       11     FOG W/VIS <= 1/4 MILE      2
HAZE                       1

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
$$
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